HERITAGE SCHOOL JAMMU
SAMPLE PAPER(HALY YEARLY EXAM)
(SESSION 2017–2018)

SUBJECT: MATHEMATICS   **M.M: 80**
CLASS: VI   **TIME: 3 hr**
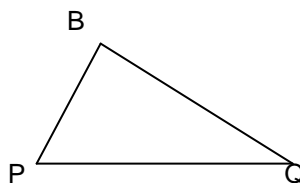
General Instructions:
- *All Questions are Compulsory*
- *Section A : Q1 to Q6 carry 1 marks*
- *Section B : Q7 to 12 carry 2 marks*
- *Section C : Q13 to Q22 carry 3 marks*
- *Section D: Q23 to Q30 carry 4 marks*

Section A

Q.1   Write the greatest 6- digit number. Also, write its successor.

Q.2   Find the product, using the associative property of multiplication :
8x 25 x 93

Q.3   Find the H.C.F of 12 and 15

Q.4   Can you draw a polygon with only two sides ?

Q.5   If you stand facing North, and take a 'right angle turn' clockwise, which direction will you face ?

Q.6   Write the opposites of :
a) Losing a weight of 2 Kg
b) Fall in temperature by 2° C

Section B

Q.7   A cricketer so far has scored 6978 runs. How many runs is he to score to get a target of 10000 runs ?

Q.8   The cost price of 34 refrigerators is Rs. 5,35,840. Find the cost of one refrigerator.

Q.9   Find the prime factorization of each of the following numbers:
a) 48   b) 81

Q.10   In Fig. 5.54, write
a) the side opposite to the vertex Q.
b) the side opposite to the vertex R.
c) the vertex opposite to the side PR.
d) the vertex opposite to the side PQ.

Q.11   An hour has 60 minutes. What fraction of an hour is 12 minutes ?

Q.12   What should be added to 205 to get 250 ?

Section C

Q.13 Given that the HCF of two numbers is 12 and the product of the numbers is 288, determine their LCM.

Q.14 In Fig. 5.55, which of the triangles have
(a) Q in their exterior ?
(b) S on at least one of its sides ?
(c) R in their interior ?

Q.15 The diameter of a circle is 18 cm. What is its (a) radius, (b) circumference ?

Q.16 Name the types of the following triangles:
(a) $\triangle$ ABC with AB = 5 cm , BC = 7 cm and CA = 6 cm
(b) $\triangle$ MNP with m $\angle$ M = 90°
(c) $\triangle$ XYZ with m $\angle$ Y = 90° and XY = YZ

Q.17 If you stand facing East and turn from East to West, what part of a revolution have you turned through ?

Q.18 Draw a number line and answer the following:
(a)Which number will we reach if we move 6 numbers to the right of – 1 ?
(b)Which number will we reach if we move 3 numbers to the left of -1 ?
(c)If we are at – 8 on the number line, in which direction should we move to reach -17 ?

Q.19 Using the number line, write the integer, which is
(a) 3 more than 5.   (b) 2 more than -7
(c) 7 less than 4.

Q.20 Anjali read 47 pages of a book containing 80 pages. Her friend Sony read $\frac{1}{2}$ of the same book. Find who has read less ?

Q.21 Harleen exercised for $\frac{5}{6}$ hour and Rohini for $\frac{3}{4}$ hour. Who exercised for a longer time ?

Q.22 Asha scored 25 marks out of 40 in English ; 20 marks out of 25 in Hindi ; and 34 marks out of 50 in Maths. In which subject did she score the least ?

Section D

Q.23 If a cookie needs 8 grams of ingredients, how many cookies can be made with 44 Kg 400 g of ingredients ?

Q.24 The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 a.m., at what time will they change simultaneously again ?

Q.25 Draw a quadrilateral KLMN. State
(a) two pairs of opposite sides
(b) two pairs of opposite angles
(c) two pairs of adjacent sides
(d) two pairs of adjacent angles

Q.26 Draw a rough sketch of a regular octagon. Draw a rectangle by joining exactly four of the vertices of the octagon.

Q.27 How many right angles do you make if you start facing :
(a)   south and turn anticlockwise to west ?
(b)   west and turn to east ?
(c)   south and turn to south again ?
(d)   north and turn clockwise to west ?

Q.28 At a certain place, the temperature at 8 p.m. was 7ºC. At 3 a.m. (next day), it had fallen by 9º C. What was the temperature at 3 a.m. ?

Q.29 Add $\frac{7}{12}$, $\frac{5}{16}$ and $\frac{9}{24}$

Q.30 Sudhar painted $\frac{2}{3}$ of the wall space in her room. Her brother Rahul helped and painted $\frac{1}{5}$ of the wall space. How much did they paint together ? What part of the whole space is left unpainted ?